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NOTICE OF ALLOWANCE AND FEE(S) DUE

25944

7590

10/14/2004

OLIFF & BERRIDGE, PLC P.O. BOX 19928 ALEXANDRIA, VA 22320 EXAMINER
NGUYEN, LAMSON D

ART UNIT

PAPER NUMBER

2861

DATE MAILED: 10/14/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/820,831	04/09/2004	Seiji Shimizu	104205.02	8481

TITLE OF INVENTION: INK CARTRIDGE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1370	\$300	\$1670	01/14/2005

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATEN <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHT THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPO PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM TH MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THE STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOV REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOLESS (O AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is n claiming SMALL ENTITY status, check box 5a on Part B Fee Transmittal and pay the PUBLICATION FEE (if required) and 1 the ISSUE FEE shown above.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) w your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or Fax

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed wh

appropriate. All further con indicated unless corrected b maintenance fee notification	below or directed otherwise	atent, advance orders and in Block 1, by (a) specifying	notification ing a new o	of maintenance fees correspondence addres	will be mailed to the current s; and/or (b) indicating a sepa	correspondence address arate "FEE ADDRESS"
	E ADDRESS (Note: Use Block 1 for 1900 10/14/2004	any change of address)		Fee(s) Transmittal, T	of mailing can only be used for his certificate cannot be used a nal paper, such as an assignment to of mailing or transmission.	for any other accompany
OLIFF & BERRI P.O. BOX 19928 ALEXANDRIA, V	DGE, PLC			C	ertificate of Mailing or Trans this Fee(s) Transmittal is bein with sufficient postage for fir ail Stop ISSUE FEE address PTO (703) 746-4000, on the c	smission
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APPLICATION NO.	FILING DATE	FIRST NA	MED INVE	NTOR .	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/820,831	04/09/2004	Sei	iji Shimizu		104205.02	8481
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nonprovisional	NO \$1370			\$300	\$1670	01/14/2005
EXAMINER		ART UNIT	С	LASS-SUBCLASS		
NGUYEN, I	AMSON D	2861		347-085000		
"Fee Address" indicate PTO/SB/47; Rev 03-02 o Number is required. 3. ASSIGNEE NAME AND PLEASE NOTE: Unless	RESIDENCE DATA TO B an assignee is identified be 37 CFR 3.11. Completion of	(1) the or age tion form of a Customer 2 registe 2 regist listed, E PRINTED ON THE PATILOW, no assignee data will of this form is NOT a substitution of a substitution of the control of t	e names of nts OR, alte a name of a red attorne stered paten no name wi ENT (print appear on tute for filin	single firm (having as y or agent) and the na t attorneys or agents. I ill be printed. or type)	ent attorneys a member a 2 mes of up to if no name is 3 gnee is identified below, the d	locument has been filed
Please check the appropriate	assignee category or categor	ries (will not be printed on t	he patent) :	Individual 🔲	Corporation or other private gro	oup entity Governm
4a. The following fee(s) are	enclosed:	4b. Paymen				
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5. Change in Entity Status)				
	MALL ENTITY status. See 3	·			ALL ENTITY status. See 37 C	
The Director of the USPTO in NOTE: The Issue Fee and Punterest as shown by the reco	s requested to apply the Issuablication Fee (if required) wards of the United States Pate	e Fee and Publication Fee (i ill not be accepted from any nt and Trademark Office.	if any) or to yone other t	re-apply any previou han the applicant; a re	sly paid issue fee to the applica gistered attorney or agent; or the	ation identified above. the assignee or other part
Authorized Signature				Date		
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This collection of information application. Confidentialists bubmitting the completed aphis form and/or suggestions Box 1450, Alexandria, Virginalists and Sandria, Virginalists and Sandria San	n is required by 37 CFR 1.3 by is governed by 35 U.S.C. plication form to the USPTO for reducing this burden, shin a 22313-1450. DO NOT Section 1.3 by 1.5 b	1. The information is required 122 and 37 CFR 1.14. This D. Time will vary depending ould be sent to the Chief In SEND FEES OR COMPLET	red to obtain collection g upon the formation C FED FORM	n or retain a benefit by is estimated to take 12 individual case. Any o Officer, U.S. Patent and IS TO THIS ADDRES	the public which is to file (and the minutes to complete, including comments on the amount of tind Trademark Office, U.S. Depos. SEND TO: Commissioner	d by the USPTO to proc ng gathering, preparing, me you require to comp artment of Commerce, P for Patents, P.O. Box 14

Alexandria, Virginia 22313-1450.

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APPLICATION NO. FILING DATE FIRST NAMED IN		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/820,831	04/09/2004	Seiji Shimizu	104205.02 8481			
25944	7590 10/14/2004		EXAM	INER		
OLIFF & BER	•		NGUYEN, LAMSON D			
P.O. BOX 1992 ALEXANDRIA			ART UNIT	PAPER NUMBER		
			2861			
		DATE MAILED: 10/14/2004				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after t mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a ha months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date th determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retriev (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



United States Patent and Trademark Office

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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO				
10/820,831	04/09/2004		Seiji Shimizu	104205.02	8481			
25944	7590	10/14/2004		EXAM	INER			
OLIFF & BER	-	LC		NGUYEN, I	NGUYEN, LAMSON D			
P.O. BOX 1992 ALEXANDRIA)		ART UNIT	PAPER NUMBER			
	•			2861				

DATE MAILED: 10/14/2004

Notice of Fee Increase on October 1, 2004

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2004, then t amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" because some fees w increase effective October 1, 2004. See Revision of Patent Fees for Fiscal Year 2005; Final Rule, 69 Fed. Reg. 5260 52606 (May 10, 2004).

The current fee schedule is accessible from WEB site (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in vie of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processi delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowan is to be filed on or after October 1, 2004 (or mailed with a certificate of mailing on or after October 1, 2004), t issue fee paid should be the fee that is required at the time the fee is paid. See Manual of Patent Examining Procedu (MPEP), Section 1306 (Eighth Edition, Rev. 2, May 2004). If the issue fee was previously paid, and the response the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue f now due, then the difference between the issue fee amount at the time the response is filed and the previously-pa issue fee should be paid. See MPEP Section 1308.01.

Effective October 1, 2004, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

(b) Issue fee for issuing a design patent:

(c) Issue fee for issuing a plant patent:

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of t Office of Patent Publication at (703) 305-8283.

Application No. Applicant(s)									
	10/820,831	SHIMIZU ET AL.							
Notice of Allowability	Examiner	Art Unit							
	Lamson D Nguyen	2861							
The MAILING DATE of this communication apperalled apperalled in the second allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the co (OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not included will be mailed in due course. THIS							
1. 🖾 This communication is responsive to <u>Preliminary amendment</u>	1. 🔀 This communication is responsive to <i>Preliminary amendment dated 04/-9/04</i> .								
2. The allowed claim(s) is/are <u>1-4</u> .									
3. \boxtimes The drawings filed on <u>09 April 2004</u> are accepted by the Ex	xaminer.								
4.									
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.									
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date 04/09/04 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. Interview Summary Paper No./Mail Da 08), 7. Examiner's Amendo	te							

Application/Control Number: 10/820,831

Art Unit: 2861

Reasons For Allowance

The following is an examiner's statement of reasons for allowance:

- The primary reason for allowance for claims 1-3 is the inclusion of the limitation of a plurality of ink supply tubes, one end of each of the plurality of ink supply tubes in fluid communication corresponding to one of the plurality of ink cartridges at a position corresponding to a substantially central portion of the plurality of ink cartridges, and the other end of the plurality of ink supply tubes in fluid connection corresponding to one of the plurality of printheads, wherein an area in which the plurality of the ink supply tubes are moved is crossed in the overhead of the scan area of the plurality of the printheads. It is these limitations, either alone or combined, that have not been found, taught, or suggested by prior art.
- The primary reason for allowance for claim 4 is the inclusion of the limitation of a plurality of ink supply tubes, one end of each of the plurality of ink supply tubes in fluid communication corresponding to one of the plurality of ink cartridges at a position corresponding to a substantially central portion of the plurality of ink cartridges, and the other end of the plurality of ink supply tubes in fluid connection corresponding to one of the plurality of printheads, the other end of the plurality of the ink supply tubes extending toward an outside of the scan area and curving back to the plurality of the printheads which makes a

Application/Control Number: 10/820,831

Art Unit: 2861

loop between the plurality of ink cartridges and the plurality of printheads, wherein an area in which the plurality of the ink supply tubes are moved and the scan area of the plurality of the printheads being overlapped when the areas are projected onto the print medium. It is these limitations, either alone or combined, that have not been found, taught, or suggested by prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lamson D Nguyen whose telephone number is 571-272-2259. The examiner can normally be reached on 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on 571-272-2149. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/820,831

Art Unit: 2861

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LAMSON NGUYEN
PRIMARY EXAMINER

Application/Control No. Applicant(s)/Patent Under Reexamination 10/820,831 SHIMIZU ET AL. Notice of References Cited Art Unit Examiner Page 1 of 1 2861 Lamson D Nguyen **U.S. PATENT DOCUMENTS** Document Number Date Classification Name MM-YYYY Country Code-Number-Kind Code US-Α US-В US-С US-D US-Ε F US-G US-US-Н US-US-J US-Κ US-L US-М FOREIGN PATENT DOCUMENTS Date **Document Number** Classification Name Country Country Code-Number-Kind Code MM-YYYY Ν 0 Ρ Q R s Т **NON-PATENT DOCUMENTS** Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages) U ٧ W Х

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)

Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Sheet	ì	of	2	

Form PTO-1449 US Dept of Commerce (REV. 8-83) PATENT & TRADEMARK OFFICE			ATTY DO 104205.0	Rule 53(b) Continuation of APPLICATION NO:					
INFOR	MATIC	ON DISCLOSURE STATEMENT				10/8	20831	10/14/4	
	(Use s	everal sheets if necessary)		APPLICANT(S) Seiji SHIMIZU et al.					
				FILING D		GROUP 2 86 (
		U.S.	PAT	ENT DOCU	MENTS	ļ			
EXAMINER INITIAL		DOCUMENT NUMBER		DATE	DATE NAME		CLASS	SUB CLASS	
	1 5,574,489 1/1		996	COWGER et al.					
0	2 .	5,966,155	10/1999		PAWLOWSKI, JR. et al.				
		•							
		FOREIC	ON P	ATENT DO	CUMENTS		 		
C 0	<u> </u>	DOCUMENT NUMBER		DATE	COUNTRY		CLASS	SUB CLASS	
	3	JP-A-6-183023	07/	1994	Japan				
	4	EP 0 899 112 A2	03/1999		Europe				
	5	JP 11-138846 (w/ Abstract)	5/1	999	Japan				
	6	JP 11-192697 (w/ Abstract)	7/1	999 -	Japan				
	7	JP 2000-015843 (w/ Abstract)	1/2	000	Japan				
	8	JP 2000-015826 (w/ Abstract)	1/2	.000	Japan				
	9	JP 2000-103069 (w/ Abstract)	4/2	2000	Japan				
1	10	JP 2000-103128 (w/ Abstract)	4/2	2000	Japan		_		
	11	JP 2000-103070 (w/ Abstract)	4/2	2000	Japan				
	12	JP 2000-103138(w/ Abstract)	4/2	2000	Japan				
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	,	OTHER DOCUMENTS (In	cludi	ng Author,	Title, Date, Pertinent Pages, etc.)				
									
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EXAMINER	16	M/ 2	1	\triangle	, 0	?/ <i>(</i>	100	<i>.</i>	
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Date: April 9, 2004

Sheet	2	of	2

Form PTO-1449 US Dept. of Commerce (REV. 8-83) PATENT & TRADEMARK OFFICE			ATTY DO 104205.00	Rule 53(b) Continuation of APPLICATION NO.					
INFOR	MATIC	ON DISCLOSURE STATEMENT					820831	12/1404	
	(Use s	everal sheets if necessary)		APPLICANT(S) Seiji SHIMIZU et al.					
Į				FILING DATE GRO			GROUPS &6 (
		U.S.	PAT	ENT DOCU	MENTS	L			
EXAMINER INITIAL		DOCUMENT NUMBER		DATE	NAME		CLASS	SUB CLASS	
	13	3 6,276,787 B1 872		1/2001	Sakanobe et al.				
	14	5,971,533	10/	26/1999	Kinoshita et al.				
	15	6,286,934 B1	9/1	1/2001	Sakanobe et al.	-			
	16	6,276,778 B1	8/2	1/2001	Katayama				
	17	6,371,595 B1	4/1	6/2002	Takemoto et al.		_		
	1	FOREIC	SN P.	ATENT DO	CUMENTS				
	DOCUMENT NUMBER		DATE	COUNTRY		CLASS	SUB CLASS		
	18	JP 2000-103139 (w/ Abstract)	4/2	000	Japan				
	19	JP 2000-103071 (w/ Abstract)	4/2	000	Japan				
	20	JP 2000-103078 (w/ Abstract)	4/2	000	Japan		_		
	21	JP 2000-103079 (w/ Abstract)	4/2	2000	Japan		_		
	22	JP 11-99655 (w/ Abstract)	4/1	999 Japan					
	23	JP 11-9665 (w/ Abstract)	4/1	999	Japan				
	24	JP 11-198495 (w/ Abstract)	7/1	1999	Japan				
	25	JP 10-250105 (w/ Abstract)	9/1	1998	Japan				
	26	JP 11-268288 (w/ Abstract)	10.	/1999	Japan		_		
	27	JP 11-286101 (w/ Abstract)	10	/1999	Japan				
	28	JP 2000-43355 (w/ Abstract)	2/2	2000	Japan				
	29	JP 2000-43352 (w/ Abstract)	2/2	2000	Japan				
	30	JP 2000-71541 (w/ Abstract)	3/2	2000	Japan				
1	31	JP 2000-71542 (w/ Abstract)	3/2	2000	Japan				
	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)								
EXAMINER	//	2.20	1	·	DATEC	09/	14/2	£	
Examiner: h	nitial i	f citation considered, whether or not connected and not considered. Include copy	of th	oh is in cor	nformance with M.P.E.P. 609; drawn next communication to applicant.	v Tine 4	hrough cital	ion if not in	

Date: April 9, 2004

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